

09/810,650

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## UNITED STATES PATENT AND TRADEMARK OFFICE

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	

03/15/2001 06/04/2004 Armstrong Westerman Hattori McLeland & Naughton

Fumiyoshi Urano

910094RI 8670 EXAMINER STOCKTON, LAURA

PAPER NUMBER

ART UNIT

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Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)
	09/810,650	URANO ET AL.
Office Action Summary	Examiner	Art Unit
*	Laura L. Stockton, Ph.D.	1626
The MAILING DATE of this communication appe Period for Reply	ears on the cover sheet with the	e correspondence address
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION.  Extensions of time may be available under the provisions of 3 CFR 1.13 after SIX (8) MONTHS from the mailing date of this communication.  If the period for projly specified above is less than thirty (80) days, a reply II NO period for reply is apecified above, the maximum statutory period with project projection of the project	6(a). In no event, however, may a reply be within the statutory minimum of thirty (30) of apply and will expire SIX (6) MONTHS for cause the anolication to horome ABANDO	timely filed  lays will be considered timely,  m the mailing date of this communication,  NED (3511,55,6,6,133)
Status		
1) Responsive to communication(s) filed on 19 Fe.	bruary 2004.	
2a) ☐ This action is FINAL. 2b) ☐ This a	action is non-final.	
<ol><li>Since this application is in condition for allowand</li></ol>		
closed in accordance with the practice under Ex	c parte Quayle, 1935 C.D. 11,	453 O.G. 213.
Disposition of Claims		
4)⊠ Claim(s) 7-11 is/are pending in the application.		
4a) Of the above claim(s) is/are withdraw	n from consideration.	
5)⊠ Claim(s) <u>7</u> is/are allowed.		
6) Claim(s) 8-11 is/are rejected.		
7) Claim(s) is/are objected to.		
8) Claim(s) are subject to restriction and/or	election requirement.	
Application Papers		
9)☐ The specification is objected to by the Examiner.		
10) The drawing(s) filed on is/are: a) accept		Evaminer
Applicant may not request that any objection to the di		
Replacement drawing sheet(s) including the correction		
11) The oath or declaration is objected to by the Exa		
Priority under 35 U.S.C. § 119		
12) ☐ Acknowledgment is made of a claim for foreign p		
a) ☐ All b) ☐ Some * c) ☐ None of:	monty under 35 U.S.C. § 119(a	a)-(d) or (f).
1. Certified copies of the priority documents	have been received	
2. Certified copies of the priority documents		4 N-
3. Copies of the certified copies of the priority		
application from the International Bureau (		ed in this National Stage
* See the attached detailed Office action for a list of		ed
	22. mod doplod not receiv	
	. *	
stachment(s)		
Notice of References Cited (PTO-892)	4) Interview Summan	(PTO-413)
Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail D	late
Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)   Paper No(s)/Mail Date	5) Notice of Informal I	Patent Application (PTO-152)

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#### **DETAILED ACTION**

Claims 7-11 are pending in the application.

# Claim Objections

Claims 10 and 11 are objected to for being substantial duplicates of claims 8 and 9, respectively. When two claims in an application are duplicates, or else are so close in content that they both cover the same thing, despite a slight difference in wording, it is proper after allowing one claim to reject the other as being a substantial duplicate of the allowed claim. M.P.E.P. 706.03(k).

# Claim Rejections - 35 USC § 112

The following is a quotation of the first paragraph of 35 U.S.C.

112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art

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to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

Claims 8 and 9 are rejected under 35 U.S.C. 112, first paragraph, the description requirements therein.

The introduction of claim changes which involve narrowing the claims by introducing elements or limitations which are not supported by the as-filed disclosure is a violation of the written disclosure requirement of 35 U.S.C. 112, first paragraph. M.P.E.P. 2163.04 and 2163.05. As stated in *Fujikawa v. Wattansasin*, 93 F.3d 1559, 39 USPQ2D 1985 (Fed. Cir. 1996), "a laundry list disclosure of every possible moiety does not constitute a written description of every species in a genus because it would not reasonably lead those skilled in the art to any particular species.

Claims 8 and 9 are rejected under 35 U.S.C. 112, first paragraph, the description therein, for reasons essentially given in the Office Action dated September 6, 2002 {Paper No. 44}, pages 2 and 3. More specifically, in claim 8, the expression "wherein R<sup>1</sup> is a cyclic alkyl group

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in which the alkyl group is hexyl; and  $R^2$  is a cyclic alkyl group in which the alkyl group is hexyl" lacks description in the original specification and the original claims. However, there is description in the instant specification of U.S. Pat. 5,216,135 (column 2, line 52) for bis(cyclohexylsulfonyl)diazomethane.

Specifically, in claim 9, the expression "where R¹ is a branched alkyl group in which the alkyl group is butyl; and R² is a branched alkyl group in which the alkyl group is butyl" lacks description in the original specification and the original claims. However, there is description in the instant specification of U.S. Pat. 5,216,135 (column 2, lines 55 and 56) for bis(tert-butylsulfonyl)diazomethane and bis(sec-butylsulfonyl)-diazomethane.

#### Response to Arguments

Applicants' arguments filed February 19, 2004 have been fully considered. Applicants argue that claim 8 is a longer way than claim 10 of writing bis(cyclohexylsulfonyl)diazomethane. Therefore, Applicants

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argue that claim 8 is supported in the instant specification because claims 8 and 10 define bis(cyclohexylsulfonyl)diazomethane. Applicants argue that claim 9 is a longer way than claim 11 of writing bis(tert-butylsulfonyl)diazomethane. Therefore, Applicants argue that claim 9 is supported in the instant specification because claims 9 and 11 define bis(tert-butylsulfonyl)diazomethane.

Applicants' arguments have been considered but have not been found persuasive. The language found in claims 8 and 9 is found in the Japanese priority document. Such language is not found in U.S. Pat. 5,216,135. Therefore, claims 8 and 9 lack written description as such.

Applicants argue that claim 10 is not rejected under 35 USC 112, first paragraph because there is clear support in US Patent 5,216,135. Applicants further argue that the Examiner has indicated that claim 10 is a substantial duplicate of claim 8. Applicants argue the statements made in the Declaration filed December 12, 2002 by Dr. Albert Tockman, Ph.D., a skilled chemist.

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Applicants' arguments have been considered but have not been found persuasive. In instant claim 10, the R1 and R2 variables are defined as cyclohexyl. The instant specification discloses that R1 and R2 can represent cyclohexyl (column 2, line 39 and line 47) and prepares a species in which both  $R^1$  and  $R^2$  are cyclohexyl (column 2, line 52). Therefore, claim 10 is adequately defined in the instant specification.

The Declaration by Dr. Albert Tockman, Ph.D. dated December 12, 2002 has been considered. The Declaration offers Declarant's opinion that the subject matter of claims 8 and 9 under subject areas of U.S. Pat. 5,216,135 and/or the Japanese priority document by pointing out expressions and terms in these documents that are inclusive of terms in the instant claims. Declarant then concludes that the inventors were in possession of the compounds of claims 8 and 9. However, Declarant has not shown persuasively where description is found, in the instant specification, for the subject matter of claims 8 and 9. The Declarant has only pointed out terms here and there and then conclude that Applicants are in possession of the compounds of claims 8 and 9. Declarant has not

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shown where there is written description for the claimed subject matter. It is noted that Declarant indicates that claim 8 is drawn to compounds wherein R1 is cyclohexyl and R2 is cyclohexyl (item 8 of the Declaration filed December 20, 2002).

Applicants do not have description for the subject matter of claims 8 and 9 in the instant specification. Therefore, the issue as to description in the Japanese priority document has no barring on the 35 U.S.C. 112. first paragraph, rejection herein.

## Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

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Claims 8-11 are rejected under 35 U.S.C. 102(e) as being anticipated by Pawlowski et al. {U.S. Pat. 5,338,641}.

Pawlowski et al. disclose compounds which are embraced by the instant claimed invention and therefore, anticipate the instant claimed invention. See the following table.

Applicants' Compounds	Pawlowski et al.'s Compounds	Instant Claims Anticipated
R <sup>1</sup> and R <sup>2</sup> are each cyclohexyl	Bis(cyclohexylsul- fonyl)diazomethane (column 4, line 46)	Claims 8 and 10
R <sup>1</sup> and R <sup>2</sup> are each branched butyl (e.g., iso-butyl)	Bis (2-methylpropyl- sulfonyl)diazomethane (column 4, line 33)	Claims 9 and 11
R <sup>1</sup> and R <sup>2</sup> are each branched butyl (e.g., sec-butyl)	Bis(1-methylpropyl- sulfonyl)diazomethane (column 4, line 32)	Claims 9 and 11

#### Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

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(a) A parent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 9 and 11 are rejected under 35 U.S.C. 103(a) as being unpatentable over Pawlowski et al. {U.S. Pat. 5,338,641}.

Determination of the scope and content of the prior art (MPEP §2141.01)

Applicants claim diazodisulfones. Pawlowski et al. teach diazodisulfones {e.g.,  $\alpha$ , $\alpha$ -bis(sulfonyl)diazomethanes} which are either structurally the same as (see above 102 rejection) or structurally similar to the instant claimed compounds. See in the reference, for example, wherein R represents butyl (including positional isomers – e.g., *tert*-butyl) or cyclohexyl {column 3, lines 8-15, 40-49, 66-68; column 4, lines 1-2; and especially the compounds in column 4, lines 32-34}.

Ascertainment of the difference between the prior art and the claims (MPEP §2141.02)

The difference between some of the compounds of the prior art and the compounds instantly claimed is that the instant claimed compounds are generically described in Pawlowski et al.

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Finding of prima facie obviousness--rational and motivation (MPEP §2142-2413)

The indiscriminate selection of "some" among "many" is *prima facie* obvious, *In re Lemin*, 141 USPQ 814 (1964). The motivation to make the claimed compounds derives from the expectation that structurally similar compounds would possess similar activity (e.g., forms a strong acid on exposure to actinic radiation).

One skilled in the art would thus be motivated to prepare compounds embraced by the reference genus to arrive at the instant claimed compounds with the expectation of obtaining additional beneficial compounds which would be useful in forming a strong acid on exposure to actinic radiation. The instant claimed invention would have been suggested to one skilled in the art and therefore, the instant claimed invention would have been obvious to one skilled in the art.

# Response to Arguments

Applicants' arguments filed February 19, 2004 pertaining to the rejections of the claims under 35 U.S.C. §§ 102(e) and 103 have been

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fully considered. Applicants argue that while the exact IUPAC names are not found in priority document JP 2-019614, dated January 30, 1990. the compounds of claims 8-11 can be found in JP 2-019614. Applicants cite the Federal Circuit guidance in the unpublished decision, In re Wako Pure Chemical Industries, 00-1139 (Fed. Cir. 2001). Applicants argue that at the top of page 8, lines 1-4 of In re Wako Pure Chemical Industries, 00-139, the court states: "Wako would be the same case as Driscoll" if Urano had claimed the entire C<sub>1-10</sub> straight-chain, branched or cyclic alkyl genus in category one of the Markush groups listed in the Japanese application. However, Urano claimed only a subset of the first category disclosed in the Japanese application." Applicants argue that instant claims 8-11 no longer claim a subset of a Markush group but only one of the members of a Markush group. Applicants cite page 14 of the Japanese priority document where alleged support is found for the instant claimed invention. Applicants then argue that the rejections under 35 U.S.C. §§ 102(e) and 103 should be rendered moot since Applicants alleged support for the instant claimed invention is found in

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the Japanese priority document which was filed January 30, 1990, making Pawlowski et al. a non-prior art reference.

All of Applicants' arguments have been considered but have not been found persuasive. In the decision of *In re Wako Pure Chemical Industries*, 00-139, in comparing <u>Driscoll</u> with the Reexam application, the court states: "this case differs from the present case in that the focus was on only one particular moiety, and there was a need to select only one group, i.e., a piperidine ring, from among disclosed compounds. In the present case, in contrast, the focus is on two moieties, R<sup>1</sup> and R<sup>2</sup>" (bottom of page 8 and the top of page 9).

Applicants argue Japanese priority document 02-019614 filed

January 30, 1990 predates the earliest filing date of Pawlowski et al. and therefore, Pawlowski et al. is not prior art against claims 8-11.

In response, the instant claimed subject matter of claims 8-11 is not adequately described in the Japanese priority document. Note the decision by the Board of Appeals and Interferences on September 24, 1999 (Paper No. 27) affirming the Examiner, and especially claims 2 and

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3, in Reexam 90/004812 (which has been merged with the instant application) and the Judgment on February 1, 2001 by the United States Court of Appeals for the Federal Circuit {Paper No. 32} – identified by Applicants as *In re Wako Pure Chemical Industries, 00-139*. Claim 3 in the Reexam listed the specific specie bis(cyclohexylsulfonyl)diazomethane, bis(tert-butylsulfonyl)diazomethane and bis(sec-butylsulfonyl)diazomethane (column 14, lines 50, 53 and 54), which correspond to claimed subject matter of instant claims 8-11.

The Board decided that claims 2 and 3 lacked adequate written descriptive support from the Japanese priority document. The Board stated, "there is no more guidance in the Japanese application to select a slightly smaller subgenus than there is to select any other subgenus." (page 10, second full paragraph of the Decision). It is noted that the subject matter of claims 2 and 3 was not appealed to the CAFC, at Applicants' choosing, and that for the subject matter appealed, claims 1 and 4-6, the position of the Examiner was affirmed. In applying the rationale given by the Board and the CAFC to instant claims, there is no

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guidance in the disclosure in the Japanese priority document to select the subject matter as claimed in instant claims 8-11. Further, the Examiner cannot ignore a CAFC Judgment (Reexam 90/004812) or a Decision by the Board of Appeals and Interferences (Reexam 90/004812) that relate to any claimed subject matter.

## Allowable Subject Matter

Claim 7 is free of the art of record for reasons already of record in Paper No. 39, pages 4-5. Therefore, claim 7 is allowed.

The original patent, or a statement as to loss or inaccessibility of the original patent, must be received before this reissue application can be allowed. See 37 CFR 1.178.

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#### Conclusion

Applicants' amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, THIS ACTION IS MADE FINAL. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Laura L. Stockton whose telephone number is (571) 272-0710. The examiner can normally be reached on Monday-Friday from 6:15 am to 2:45 pm. If the examiner is out of the Office, the examiner's supervisor, Joseph McKane, can be reached on (571) 272-0699.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

The Official fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

Laura L. Stockton, Ph.D.

Patent Examiner

Art Unit 1626, Group 1620

Technology Center 1600